Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-12-33 **Date: 02/03/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/114/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-02-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	23/02/2019	02/03/2019	149.83 X 149.26 X 151.02	22364	8.257	566.2	25.3	25.2
2	Cement Concrete Pavement	M30	23/02/2019	02/03/2019	151.61 X 149.12 X 151.92	22608	8.435	595.9	26.4	
3	Cement Concrete Pavement	M30	23/02/2019	02/03/2019	149.06 X 149.43 X 150.15	22274	8.449	535.6	24.0	

Note:

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-04-12-33** **Date: 23/03/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-2019
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	23/02/2019	23/03/2019	149.59 X 151.91 X 151.25	22724	8.245	759.8	33.4	33.3
2	Cement Concrete Pavement	M30	23/02/2019	23/03/2019	150.19 X 149.74 X 149.79	22490	8.390	736.0	32.7	
3	Cement Concrete Pavement	M30	23/02/2019	23/03/2019	151.29 X 151.37 X 149.24	22901	8.359	773.2	33.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-04-12-33** **Date: 02/03/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-2019
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	23/02/2019	02/03/2019	150.20 X 151.43 X 149.05	22745	8.257	587.8	25.8	25.3
2	Cement Concrete Pavement	M30	23/02/2019	02/03/2019	150.45 X 150.50 X 151.35	22644	8.435	589.3	26.0	
3	Cement Concrete Pavement	M30	23/02/2019	02/03/2019	149.51 X 151.28 X 150.99	22617	8.449	543.1	24.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-04-12-33**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-2019
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/03/2019

Date: 01/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/02/2019	01/03/2019	150.77 X 150.45 X 149.65	22683	8.257	583.6	25.7	25.6
2	Cement Concrete Pavement	M30	22/02/2019	01/03/2019	151.84 X 151.48 X 149.94	23001	8.435	607.6	26.4	
3	Cement Concrete Pavement	M30	22/02/2019	01/03/2019	151.86 X 149.92 X 149.66	22766	8.449	563.1	24.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-12-33 **Date: 01/03/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/114/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-02-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/02/2019	01/03/2019	151.69 X 151.31 X 151.52	22952	8.257	590.6	25.7	25.8
2	Cement Concrete Pavement	M30	22/02/2019	01/03/2019	151.10 X 151.42 X 149.32	22880	8.435	608.2	26.6	
3	Cement Concrete Pavement	M30	22/02/2019	01/03/2019	149.28 X 149.61 X 150.75	22334	8.449	557.4	25.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-12-33 **Date: 01/03/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/114/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-02-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/02/2019	01/03/2019	150.60 X 149.97 X 151.92	22585	8.257	564.6	25.0	25.2
2	Cement Concrete Pavement	M30	22/02/2019	01/03/2019	149.87 X 150.04 X 150.78	22487	8.435	586.3	26.1	
3	Cement Concrete Pavement	M30	22/02/2019	01/03/2019	150.48 X 151.19 X 151.24	22752	8.449	557.3	24.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-12-33

Date: 22/03/2019

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/114/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-02-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/02/2019	22/03/2019	150.59 X 151.01 X 151.06	22741	8.245	769.1	33.8	33.5
2	Cement Concrete Pavement	M30	22/02/2019	22/03/2019	149.73 X 151.17 X 150.16	22634	8.390	744.6	32.9	
3	Cement Concrete Pavement	M30	22/02/2019	22/03/2019	150.59 X 150.78 X 151.76	22706	8.359	765.9	33.7	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-12-33 **Date: 02/03/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/114/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-02-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	23/02/2019	02/03/2019	149.06 X 149.71 X 150.99	22316	8.257	563.3	25.2	25.3
2	Cement Concrete Pavement	M30	23/02/2019	02/03/2019	149.29 X 150.55 X 149.49	22476	8.435	588.7	26.2	
3	Cement Concrete Pavement	M30	23/02/2019	02/03/2019	149.89 X 151.68 X 151.76	22736	8.449	556.9	24.5	

Note:

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-04-12-33** **Date: 21-02-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-2019
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	19-02-2019
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.0	-
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	-
4	Standard Consistency (%)	0.295	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-04-12-33** **Date: 21-02-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-02-2019
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-02-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2019-04-12-33 Date: 20-02-2019
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-2019
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-02-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	_

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-04-12-33**
		Date: 20-02-2019
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-2019
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	18-02-2019
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2019-04-12-33**	**Date: 05-03-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.	
Agency	:	Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.	
Customer Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	01-03-2019	
Type of Mix	:	BC-Plant (Bituminous Concrete)	
Date of test	:	01-03-2019	
Oven Dry Weight	:	5000	Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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Quality Manager

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2019-04-12-33** **Date: 05-03-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-2019
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	01-03-2019

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2019-04-12-33** **Date: 05-03-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-2019
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	01-03-2019

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 11-03-2019

Lab ID	:	CP-RW-2019-04-12-33
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	08-03-2019
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	08-03-2019

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	470	469
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.0	6.2
4	Average percentage	%	6.1	

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2019-04-12-33** **Date: 27-02-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-02-2019
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	26-02-2019

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	246	Min. 220°C
	Fire point, °C	272	

Note:-
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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2019-04-12-33** **Date: 09-03-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Work Order Ref	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Sample Condition	:	Satisfactory
Date of Receipt	:	08-03-2019
Type of Mix	:	Tack coat
Date of test	:	08-03-2019

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.76	0.76
4	Final weight of plate after application of tack Coat (c)	Kg	0.783	0.783
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

Note:-
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-12-33 **Date: 02/03/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/114/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-02-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	23/02/2019	02/03/2019	149.83 X 149.26 X 151.02	22364	8.257	566.2	25.3	25.2
2	Cement Concrete Pavement	M30	23/02/2019	02/03/2019	151.61 X 149.12 X 151.92	22608	8.435	595.9	26.4	
3	Cement Concrete Pavement	M30	23/02/2019	02/03/2019	149.06 X 149.43 X 150.15	22274	8.449	535.6	24.0	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-04-12-33** **Date: 23/03/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-2019
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	23/02/2019	23/03/2019	149.59 X 151.91 X 151.25	22724	8.245	759.8	33.4	33.3
2	Cement Concrete Pavement	M30	23/02/2019	23/03/2019	150.19 X 149.74 X 149.79	22490	8.390	736.0	32.7	
3	Cement Concrete Pavement	M30	23/02/2019	23/03/2019	151.29 X 151.37 X 149.24	22901	8.359	773.2	33.8	

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Lab ID	:	**CP-2019-04-12-33** **Date: 02/03/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-2019
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	23/02/2019	02/03/2019	150.20 X 151.43 X 149.05	22745	8.257	587.8	25.8	25.3
2	Cement Concrete Pavement	M30	23/02/2019	02/03/2019	150.45 X 150.50 X 151.35	22644	8.435	589.3	26.0	
3	Cement Concrete Pavement	M30	23/02/2019	02/03/2019	149.51 X 151.28 X 150.99	22617	8.449	543.1	24.0	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-04-12-33**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-2019
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/03/2019

Date: 01/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/02/2019	01/03/2019	150.77 X 150.45 X 149.65	22683	8.257	583.6	25.7	25.6
2	Cement Concrete Pavement	M30	22/02/2019	01/03/2019	151.84 X 151.48 X 149.94	23001	8.435	607.6	26.4	
3	Cement Concrete Pavement	M30	22/02/2019	01/03/2019	151.86 X 149.92 X 149.66	22766	8.449	563.1	24.7	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-12-33 **Date: 01/03/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/114/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-02-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/02/2019	01/03/2019	151.69 X 151.31 X 151.52	22952	8.257	590.6	25.7	25.8
2	Cement Concrete Pavement	M30	22/02/2019	01/03/2019	151.10 X 151.42 X 149.32	22880	8.435	608.2	26.6	
3	Cement Concrete Pavement	M30	22/02/2019	01/03/2019	149.28 X 149.61 X 150.75	22334	8.449	557.4	25.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-12-33 **Date: 01/03/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/114/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-02-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/02/2019	01/03/2019	150.60 X 149.97 X 151.92	22585	8.257	564.6	25.0	25.2
2	Cement Concrete Pavement	M30	22/02/2019	01/03/2019	149.87 X 150.04 X 150.78	22487	8.435	586.3	26.1	
3	Cement Concrete Pavement	M30	22/02/2019	01/03/2019	150.48 X 151.19 X 151.24	22752	8.449	557.3	24.5	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-12-33

Date: 22/03/2019

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/114/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-02-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/02/2019	22/03/2019	150.59 X 151.01 X 151.06	22741	8.245	769.1	33.8	33.5
2	Cement Concrete Pavement	M30	22/02/2019	22/03/2019	149.73 X 151.17 X 150.16	22634	8.390	744.6	32.9	
3	Cement Concrete Pavement	M30	22/02/2019	22/03/2019	150.59 X 150.78 X 151.76	22706	8.359	765.9	33.7	

Note:
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-12-33 **Date: 02/03/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/114/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-02-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	23/02/2019	02/03/2019	149.06 X 149.71 X 150.99	22316	8.257	563.3	25.2	25.3
2	Cement Concrete Pavement	M30	23/02/2019	02/03/2019	149.29 X 150.55 X 149.49	22476	8.435	588.7	26.2	
3	Cement Concrete Pavement	M30	23/02/2019	02/03/2019	149.89 X 151.68 X 151.76	22736	8.449	556.9	24.5	

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-04-12-33** **Date: 21-02-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-2019
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	19-02-2019
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.0	-
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	-
4	Standard Consistency (%)	0.295	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-04-12-33** **Date: 21-02-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-02-2019
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-02-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2019-04-12-33 Date: 20-02-2019
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-2019
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-02-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	_

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-04-12-33**
		Date: 20-02-2019
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-2019
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	18-02-2019
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2019-04-12-33**	**Date: 05-03-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.	
Agency	:	Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.	
Customer Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	01-03-2019	
Type of Mix	:	BC-Plant (Bituminous Concrete)	
Date of test	:	01-03-2019	
Oven Dry Weight	:	5000	Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

Note:-
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Quality Manager

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2019-04-12-33** **Date: 05-03-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-2019
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	01-03-2019

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2019-04-12-33** **Date: 05-03-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-2019
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	01-03-2019

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 11-03-2019

Lab ID	:	CP-RW-2019-04-12-33
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	08-03-2019
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	08-03-2019

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	470	469
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.0	6.2
4	Average percentage	%	6.1	

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2019-04-12-33** **Date: 27-02-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-02-2019
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	26-02-2019

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	246	Min. 220°C
	Fire point, °C	272	

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2019-04-12-33** **Date: 09-03-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Balance Cross Roads of Mathrulayout in Ward no 04.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Work Order Ref	:	EE(YNK.D)E-PMT-03/W.O/114/2018-19
Sample Condition	:	Satisfactory
Date of Receipt	:	08-03-2019
Type of Mix	:	Tack coat
Date of test	:	08-03-2019

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.76	0.76
4	Final weight of plate after application of tack Coat (c)	Kg	0.783	0.783
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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